	-9		OMB No. 2 0042 Approval E	xpires 1/31/05
	U STATES ENVIRO			
	APPLICATION T	OTON, D.C. 204		
NAME & ADDRESS OF EXISTING PERMITT			RESS OF SURFACE OWNER	
Kalkaska Oilfield Services	LL		field Services	•
1030 Columbus Drive, NE		I	ous Drive, NE	
Kalkaska, Michigan 49646		1	chigan 49646	
talkadka, Morngan 10010		Trainaona, m	ongen roots	
	STATE	COUNTY		PERMIT NUMBER
Locate Well and Outline Unit on	Michigan	Kalkaska		MI-079-2D-C008
Section Plat - 640 Acres	SURFACE LOCATION DESCRIP		1/4 of Section 0. Townshir	20N Danga 7\//
	SW 1/4 of SW 1/4 of		1/4 of Section 9 Township ST LINES OF QUARTER SECTION AND DR	
ļ	Surface			
		0 ft. From (N/S)	South Line of Quarter	
	And46	0 ft. From (E/W)	West Line of Quarter	Section
ļ	WELL ACTIV	/ITY	WELL STATUS	TYPE OF PERMIT
	☐ Class I		✓ Operating	✓ Individual
1	✓ Class II		☐ Modification/Conversion	☐ Area
	☑ Brine Di	sposal	Proposed	North and of Malla
1-1-1-1-1-1-1-1-1	☐ Enhance	ed Recovery	Порозеа	Number of Wells
 	☐ Hydroca	arbon Storage		
	☐ Class III	_		
	Other			•
	Lease Number	Simpson	·	Well Number 1-9
IAME(S) AND ADDRESS(ES) OF NEW OW	NER(S)	NAME AND A	DDRESS OF NEW OPERATOR	
S.W.D. Speciaties, LLC		S.W.D. Spec	iaties, LLC	
4030 Columber Drive, NE		•	ımber Drive, NE	
Kalkaska, Michigan 49646			ichigan 49646	
The new permittee must show adequate assurance, such as				or other
I certify under the penalty of law the all attachments and that, based on I believe that the information is true false information, including the po	hat I have examined and am n my inquiry of those individu ie, accurate, and complete. issibility of fine and imprison	uals immediately I am aware that	responsible for obtaining the inforthere are significant penalties for	mation,
LIVIT You 1	Manager SIGNATURE	16	To all	3-2-2006
FPA Form 7520-7 (Rev. 8-01)		NICK!	wor	102000

							3 No. 7 0042 /	Approval Expires	1/31/05				
			ال _{اس} حق		NVIRONMENT		N AĠ.↓.ÔY						
					ASHINGTON, D								
			PLU	GGING A	and aban	NDONMEN	IT PLAN						
Name and	Address of Fac	ility		· · · · · · · · · · · · · · · · · · ·		Name and Add	dress of Owner	/Operator					
SIMPSON		-				S.W.D SPECIALTIES, LLC							
	TH ROAD NE					4030 COLUMBUS DR							
ALDEN MI						KALKASKA N							
ALDEN WI	49012					IVALIVASIVA II	WI 49040						
			State		County				Permit Number				
Locate M	ell and Outline	Unit on	Michiga	n	KALKASKA				MI-079-2D-C	2008			
	Plat - 640 Acres	Othe On		ation Description					WII-075-2D-C	7000			
	N		SW	SW	NW	Section 9	twp 28n		Range 7W				
!!!	- 	<u> </u>			s from nearest lines				· tuinge / ti				
			Surface										
			Location		ft. From (N/S)	South Line	e of Quarter Sec	tion	•				
			And	460	ft. From (E/W)	West Line	e of Quarter Sec	tion					
			TYP	E OF AUT	HORIZATION		WELL	Class I					
			l '''						rdous				
1 (✓ Individua	al Permit		ACTIVITY	=					
				Area Peri	mit				nazardous				
				_				☑ Class II					
J				Rule				<u></u> Brine	Disposal				
								Enhar	nced Recovery				
				-5141-11-			1	Hydro	carbon Storage)			
! i			Number	of Wells	1	-		Class III					
			Lease Na	ama	Simpson		Well Number	1-9 swd					
			120000 110		Сппросп		i i i i i i i i i i i i i i i i i i i	1					
	CAS	ING AND TUBIN	IG RECOR	RD AFTER P	LUGGING		METHOD OF	EMPLACEMEN	IT OF CEMEN	T PLUGS			
SIZE	· WT (LB/FT)	TO BE PUT IN WELL (FT))	TO BE LEFT IN WE	ELL (FT)	HOLE SIZE	-						
16"	65#	80'		80'		driver	☐ ☑ Bala	ance Method					
11 3/4	42#	770'		770'		cir to sfc	☐ Dui	mp Bailer Metho	d				
8 5/8	24#	1518'		1518'		250 sx		o Plug Method					
0 0/0	2-7.1	1010		1010		200 0/		_					
CEMENT	TO PLUG AN	D ABANDON D	ΔΤΔ.	Plug #1	Plug #2	Plug #3	Plug#4	Plug #5	Plug #6	Plug #7			
		/ill Be Placed (inches)	7717.	8 5/8	8 5/8	1 lug #0	t lug#+	1 lug ii o	1 10g #0	1149			
	n of Tubing or Drill Pi			1452'	522'								
Sacks of Cemer	nt To Be Used (each	plug)		76	158								
	To Be Pumped (cu. F	t.)		90	186		ļ	ļ					
Calculated Top				1202'	3'		 -	 					
Slurry Weight (1	of Plug (if tagged, ft.) _b./Gal.)			15.6	15.6			 					
	t or Other Material (C	class III)		Α	А								
LI	ST ALL OPEN	HOLE AND/O	R PERFO	RATED IN	TERVALS AN	D INTERVAL	S WHERE CA	SING WILL BI	VARIED (if	any)			
	From			To		Fro		1	То				
	1510'			2050'									
	2328'			2488'									
	2320			2400									
								I					
Estimated	Cost to Plug W	ells			-								
		\$4,500											
		Ψ-,500											
					CERTIFICA	TION							
	I certify under th	e penalty of law th	at I have ex	amined and a	m familiar with the	information sub	mitted in this doc	ument and					
	-	and that, based on											
		information is true				•							
		n, including the pos		-									
Name and Sam	and TWO	/DI		101					In-t- Ci				
Name and Offi	Cial Tibre	(Please type or print)		Signature	PbL		***************************************		Date Signed 3-2-4	2006			
71.01	700/	/	492	<u></u>	ser 10	09			ا الما ال				
EPA For	n 7520-14 (F	Rev. 8-01)											

DEQ

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY - OFFICE OF GEOLOGICAL SURVEY

Permit number

Well type

Current true vertical depth

REQUEST FOR TRANS	32660			Brine Disposal			6169'				
• • • • • • • • • • • • • • • • • • • •		Well name and number									
Required by authority of Part 615 Sup Mineral Wells, Act 451 PA 1994 as ame	pervisor of Wells or Part 625	Simpson #1-9									
falsification of this information may resul	t in fines and/or imprisonment.	Surfac	e locat	ion							
laisincaudit of this information may receive		sw	1/4	sw	1/4	NW ·	/4 Se	ction 9	T 28N	R 7W	
Part 615 Oil/Gas Well	Part 625 Mineral Well	Towns	hip				Cou	nty			
		Rapid	Rive	r			Kal	Kalkaska			
NOTE: Eligibility for permits is conditioned upon compliance with the statutes, rules and orders of the Department of Environmental Quality. Permits shall not be transferred to persons not in compliance. A permit for a well shall not be transferred if the permittee is under notice because of unsatisfactory conditions at the well site until compliance is achieved. The acquiring permittee shall attach a current Organization Report (EQP 7200-13) This permit does not convey property rights in either real estate or material nor does it authorize any injury to private property or invasion of private or public rights nor does it waive the necessity of seeking federal and local permits or complying with other state statutes.											
	TRANSFER OF	A PEF	RMIT	ROM:		,,					
Name(s) of Selling Permittee(s)								ed. I.D.# or 8			
Kalkaska Oil Field Services							3	8-308-360	4		
Address: Number and Street, City or Town											
4030 Columbus Drive, NE, PO Box 1090, Kalkaska, MI 49646 616-258-6026											
All permits rights and responsibilities are o	discharged by:										
Kalkaska Oil Field Services Permittee	Rick Root Authorized representative	name				Rick 16 Sign	ool ature		<i>/ᢒ-/₃</i> - Da	ార్వా te	
Permittee	Authorized representative	e name Signa			ature		Da	te			
Permittee	Authorized representative					Sign	eture		Dar	te	
TRANSFER OF A PERMIT TO:											

Permittee		Authorized repres	entative name	Signature	Date			
Permittee		Authorized repres	entative name	Signature	Date			
		TRANS	D-					
Name(s) of Acquiring Permitt	ee(s):		FER OF A PERMIT TO	Fed. I.D.# o	r S.S.#			
SWD Specialities, LLC				EIN 20-33	310760			
Address: Number and Street,	City or Town, Stat	e, ZIP Code		Telephone				
4030	Columbus I	rive. Kalkask	a. MI 49646 - Bu	ıs: 231-258-9134	. •			
1000	Ooiaiiibae -	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
(We are) (i am) an owner or a abandonment in conformity w	authorized represer	tative of the owner or ons and orders.	f the well under this permi	t and assume full responsibility for the	drilling, operation, and			
BOND: Single Well	X Attached	Surety or Bank	Northwestern Ba	nk				
☐ Blanket	On File	Bond Number	LOC #0511152	Amount\$25,000				
☐ Statement of	Financial Respor	sibility						
All permittee rights and responsibilities are assumed by: SWD Specialties, LLC Permittee Authorized representative name Authorized representative name Signature Date								
SWD Specialties, LLC Permittee	G	Signature Signature	///23/0-3 Date					
Permittee		Authorized repres	entative name	Signature	Date			
Permittee		Authorized repres	entative name	Signature	Date			
, 0,,,,,,	FOR			IALITY LISE ONLY				
	FORD	EFAKIMENI UF	ENVIRONMENTAL QL	Distribution by D	EQ			
					Selling Owner			
Approved					- · · ·			

EQP 7200-7 (rev. 8/2004)

Mail Original and 3 copies to:

Signature

OFFICE OF GEOLOGICAL SURVEY MICHIGAN DEPT OF ENVIRONMENTAL QUALITY PO BOX 30256 LANSING MI 48909-7756

Date

☐ Field

Acquiring Owner

FEB 14 '96 17:02 616 258 3446 $_{\Lambda}$		P.3
STATE OF MICHIGAN	YPE OR PRI	NT
REQUEST FOR TRANSFER OF PERMIT	PERMIT NO. 32660 ATTEL TYPE	
SUBMIT ORIGINAL & 3 COPIES TO: Department of Natural Resources	365-905-840* Act 345 Dispo	sal
Geological Survey Division Box 30028	Rapid River	
Lansing, Michigan 48909	WELL NAME AND NUMBER	
Filing for change of ownership of well is required in accordance with 🛛 🛣 Act	Simpson #1-9	
61, P.A. 1939 <u>and</u> 風Ast 315, P.A. 1969, as amended, and Administrative Rules promulgated thereunder.	WELL LOCATION	
Administrative rules promulgated inerespical.	SW 1/4 SW1/4 NW1/4 SECTION 9	v. 28N a. 7W
TRANSFER OF A PERMIT FROM:	•	(alkaska
NAME(S) OF SELLING OWNER(S)	**	I.D.# OH S.S.#
W & J Enterprises, Inc.	Fed. I.D	.#382836574
P.O. Box 427, Kalkaska, MI 49646		
All operating rights are discharged by:		
Owner(s) Representative(s)	S-gnature(a)	Oate(s)

W & J Enterprises, Inc.		12/14/92
LaWenda Hogerheide, President	La Menda M	Hoperhale
		12/14/92
	· Annual Control of the Control of t	
/1-00-		
ELIGIBILITY FOR PERMITS IS CONDITIONED UPON COMPLIANCE WI		OF THE DEPARTMENT OF
NATURAL RESOURCES. PERMITS WILL NOT BE GRANTED TO PERS	SONS NOT IN COMPLIANCE.	
NON CHEMICSION AND IDD SALCISION OF THE WAS	OF SATION SAME DECLINE IN ENGER AND ADDRESS	I I I I DOMO ON A SCAUT
NON-SUBMISSION AND/OR FALSIFICATION OF THIS INFO	· · · · · · · · · · · · · · · · · · ·	IMPRISONMENT.
E(S) OF ACQUIRING OWNER(S)	A PERMIT TO:	. I.D.# OR 5.5.#
	FED.	1
Kalkaska Oilfield Services, Inc. ADDRESS: Number and Street — City or Yown — State — Zip Code — Telephone	feo. 31	8-3083604
Kalkaska Oilfield Services, Inc. ADDRESS: Number and Street — City or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI	49646 (616) 258-9134	8-3083604 1
Kalkaska Oilfield Services, Inc. ADDRESS: Number and Street — City or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (Wa) (I) have acquired the well under this permit and assume full respon	49646 (616) 258-9134	8-3083604 1
Kalkaska Oilfield Services, Inc. ADDRESS: Number and Street — City of Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (We) (I) have acquired the well under this permit and assume full respondance, regulations and orders.	fED. 31 49646 (616) 258-9134 nsibility for the drilling, operation, and abandor	8-3083604 1 Inment in conformity with the
E(S) OF ACQUIRING OWNER(S) Kalkaska Oilfield Services, Inc. ADDRESS: Number and Street — City or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (We) (I) have acquired the well under this permit and assume full responsible, regulations and orders. SURETY BOND: SINGLE WELL X ATTACHED BONDS	A 49646 (616) 258-9134 Asibility for the drilling, operation, and abandor NG CO.First of America Ban	8-3083604 1 Inment in conformity with the
E(S) OF ACQUIRING OWNER(S) Kalkaska Oilfield Services, Inc. ADDRESS: Number and Street — City or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (We) (I) have acquired the well under this permit and assume full responsible. regulations and orders. SURETY BOND: SINGLE WELL ATTACHED BONDS	fED. 31 49646 (616) 258-9134 nsibility for the drilling, operation, and abandor	8-3083604 1 Inment in conformity with the
Kalkaska Oilfield Services, Inc. ADDRESS: Number and Street — City or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (Wa) (I) have acquired the well under this permit and assume full responsible, regulations and orders. SURETY BOND: SINGLE WELL ATTACHED BONDS X BLANKET ON FILE BOND	A 49646 (616) 258-9134 Asibility for the drilling, operation, and abandor NG CO.First of America Ban	8-3083604 1 Inment in conformity with the
E(S) OF ACQUIRING OWNER(S) Kalkaska Oilfield Services, Inc. ADDRESS: Number and Street — City or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (We) (I) have acquired the well under this permit and assume full responsible, regulations and orders. SURETY BOND: SINGLE WELL X ATTACHED BONDS	A 49646 (616) 258-9134 Asibility for the drilling, operation, and abandor NG CO.First of America Ban	8-3083604 1 Inment in conformity with the
Kalkaska Oilfield Services, Inc. ADDRESS: Number and Street — City or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (Wa) (I) have acquired the well under this permit and assume full respondance regulations and orders. SURETY BOND: SINGLE WELL ATTACHED BOND All operating rights and responsibilities are assumed by Owner(s) Representative(s)	A9646 (616) 258-9134 Asibility for the drilling, operation, and abandor NG CO.First of America Bandon NUMBER 236	8-3083604 Inment in conformity with the K - Northern Mich Date(s)
Kalkaska Oilfield Services, Inc. ADDRESS: Number and Street — City or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (We) (I) have acquired the well under this permit and assume full responsible, regulations and orders. SURETY BOND: SINGLE WELL ATTACHED BONDS All operating rights and responsibilities are assumed by	A9646 (616) 258-9134 Asibility for the drilling, operation, and abandor NG CO.First of America Bandon NUMBER 236	8-3083604 1 Inment in conformity with the K - Northern Mich
Kalkaska Oilfield Services, Inc. ADDRESS: Number and Street — City or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (Wa) (I) have acquired the well under this permit and assume full respondance regulations and orders. SURETY BOND: SINGLE WELL ATTACHED BOND All operating rights and responsibilities are assumed by Owner(s) Representative(s)	A9646 (616) 258-9134 Asibility for the drilling, operation, and abandor NG CO.First of America Bandon NUMBER 236	8-3083604 Inment in conformity with the K - Northern Mich Date(s) 12/14/92
Kalkaska Oilfield Services, Inc. ADDRESS: Number and Streat — City or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (We) (I) have acquired the well under this permit and assume full responsive, regulations and orders. SURETY BOND: SINGLE WELL ATTACHED BONDS All operating rights and responsibilities are assumed by Owner(s) Representative(s) Kalkaska Oilfield Services, Inc.	49646 (616) 258-9134 Asibility for the drilling, operation, and abandor NG CO.First of America Band NUMBER 236 Signature(s)	8-3083604 Inment in conformity with the K - Northern Mich Date(s) 12/14/92 12/14/92
Kalkaska Oilfield Services, Inc. ADDRESS: Number and Streat — City or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (We) (I) have acquired the well under this permit and assume full responsive, regulations and orders. SURETY BOND: SINGLE WELL ATTACHED BONDS All operating rights and responsibilities are assumed by Owner(s) Representative(s) Kalkaska Oilfield Services, Inc.	49646 (616) 258-9134 Asibility for the drilling, operation, and abandor NG CO.First of America Band NUMBER 236 Signature(s)	8-3083604 Inment in conformity with the K - Northern Mich Date(s) 12/14/92
Kalkaska Oilfield Services, Inc. ADDRESS: Number and Street — Gity or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (We) (I) have acquired the well under this permit and assume full responsive, regulations and orders. SURETY BOND: SINGLE WELL ATTACHED BONDS All operating rights and responsibilities are assumed by Owner(s) Representative(s) Kalkaska Oilfield Services, Inc. Dennis Hogerheide, President	49646 (616) 258-9134 Asibility for the drilling, operation, and abandor NG CO.First of America Band NUMBER 236 Signature(s)	8-3083604 Inment in conformity with the K - Northern Mich Date(s) 12/14/92 12/14/92
Kalkaska Oilfield Services, Inc. ADDRESS: Number and Streat — City or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (We) (I) have acquired the well under this permit and assume full responsive, regulations and orders. SURETY BOND: SINGLE WELL ATTACHED BONDS All operating rights and responsibilities are assumed by Owner(s) Representative(s) Kalkaska Oilfield Services, Inc.	49646 (616) 258-9134 Asibility for the drilling, operation, and abandor NG CO.First of America Band NUMBER 236 Signature(s)	8-3083604 Inment in conformity with the K - Northern Mich Date(s) 12/14/92 12/14/92
Kalkaska Oilfield Services, Inc. ADDRESS: Number and Street — City or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (We) (I) have acquired the well under this permit and assume full responsive, regulations and orders. SURETY BOND: SINGLE WELL ATTACHED BONDS All operating rights and responsibilities are assumed by Owner(s) Representative(s) Kalkaska Oilfield Services, Inc. Dennis Hogerheide, President * CONVERSION OF PN# 32660,	49646 (616) 258-9134 Asibility for the drilling, operation, and abandor NG CO.First of America Band NUMBER 236 Signature(s)	B-3083604 Inment in conformity with the K - Northern Mich Date(s) 12/14/92 12/14/92
Kalkaska Oilfield Services, Inc. ADDRESS: Number and Street — City or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (We) (I) have acquired the well under this permit and assume full responsive, regulations and orders. SURETY BOND: SINGLE WELL ATTACHED BONDS All operating rights and responsibilities are assumed by Owner(s) Representative(s) Kalkaska Oilfield Services, Inc. Dennis Hogerheide, President * CONVERSION OF PN# 32660,	49646 (616) 258-9134 Asibility for the drilling, operation, and abandor NG CO.First of America Band NUMBER 236 Signature(s) Act 61	B-3083604 Inment in conformity with the K - Northern Mich Date(s) 12/14/92 12/14/92
Kalkaska Oilfield Services, Inc. ADDRESS: Number and Street — City or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (We) (I) have acquired the well under this permit and assume full responsive, regulations and orders. SURETY BOND: SINGLE WELL ATTACHED BONDS All operating rights and responsibilities are assumed by Owner(s) Representative(s) Kalkaska Oilfield Services, Inc. Dennis Hogerheide, President * CONVERSION OF PN# 32660,	49646 (616) 258-9134 Asibility for the drilling, operation, and abandor NG CO.First of America Band NUMBER 236 Signature(s) Act 61	B-3083604 Inment in conformity with the K - Northern Mich Date(s) 12/14/92 12/14/92
Kalkaska Oilfield Services, Inc. ADDRESS: Number and Street — City or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (We) (I) have acquired the well under this permit and assume full responsive, regulations and orders. SURETY BOND: SINGLE WELL ATTACHED BONDS All operating rights and responsibilities are assumed by Owner(s) Representative(s) Kalkaska Oilfield Services, Inc. Dennis Hogerheide, President * CONVERSION OF PN# 32660,	49646 (616) 258-9134 Asibility for the drilling, operation, and abandor NG CO.First of America Band NUMBER 236 Signature(s) Act 61	B-3083604 Inment in conformity with the k - Northern Mich Date(s) 12/14/92 12/14/92
Kalkaska Oilfield Services, Inc. ADDRESS: Number and Street — City or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (We) (I) have acquired the well under this permit and assume full responsive, regulations and orders. SURETY BOND: SINGLE WELL ATTACHED BONDS All operating rights and responsibilities are assumed by Owner(s) Representative(s) Kalkaska Oilfield Services, Inc. Dennis Hogerheide, President * CONVERSION OF PN# 32660,	49646 (616) 258-9134 Asibility for the drilling, operation, and abandor NG CO.First of America Band NUMBER 236 Signature(s) Act 61	B-3083604 Inment in conformity with the K - Northern Mich Date(s) 12/14/92 12/14/92 12/14/92 OISTRIBUTION BY DNR Lansing Acquiring Owner
Kalkaska Oilfield Services, Inc. ADDRESS: Number and Street — City or Yown — State — Zip Code — Telephone 418 South Maple Street, Kalkaska, MI (We) (I) have acquired the well under this permit and assume full responsive, regulations and orders. SURETY BOND: SINGLE WELL ATTACHED BONDS All operating rights and responsibilities are assumed by Owner(s) Representative(s) Kalkaska Oilfield Services, Inc. Dennis Hogerheide, President * CONVERSION OF PN# 32660,	49646 (616) 258-9134 Asibility for the drilling, operation, and abandor NG CO.First of America Band NUMBER 236 Signature(s) Act 61	B-3083604 Inment in conformity with the K - Northern Mich Date(s) 12/14/92 12/14/92 12/14/92 OUNIT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 **€**EPA APPLICATION TO TRANSFER PERMIT NAME AND ADDRESS OF EXISTING PERMITTEE NAME AND ADDRESS OF SURFACE OWNER Kalkaska Gilfield Services, Inc. W&J Enterprises, Inc. P.O.Box 427 418 South Maple Street Kalkaska, MI 49646 Kalkaska, MI 49646 STATE COUNT PERMIT NUMBER LOCATE WELL AND OUTLINE UNIT ON MI Kalkaska MI-079-2D-0008 SECTION PLAT - 840 ACRES SURFACE LOCATION DESCRIPTION TOWNSHIP 28N RANGE 7W NW WEETTON 9 SW wor SW wor LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface 460 ft from (N/S) S Line of guerrer section and 460ts from (E/W) W Line of guarter section WELL ACTIVITY WELL STATUS TYPE OF PERMIT Class i □ Operating ☐ Individual E ☐ Modification/Conversion **D**Class II □ Area Proposed EBrine Disposal Number of Wells ☐ Enhanced Recovery ☐ Hydrocarbon Storage Ciass Ili □ Other #1-9 Simpson Lease Name Wett Number

MAME(S) AND ADDRESSIES) OF NEW OWNER(S)
Kalkaska Oilfield Services, Inc.
418 South Maple Street
Kalkaska, MI 49646

NAME AND ADDRESS OF NEW OPERATOR
Kalkaska Oilfield Services, Inc.
418 South Maple Street
Kalkaska, MI 49646

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and fiability between them.

The new permittee must show evidence of financial responsibility by the submission of surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the director.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type of Birni) LaWenda Hogerheide, President W&J Enterprises, Inc. La Warda M. Hogerhaide

DATE SIGNED

12/14/92

	Form ENCY
	TIED STATES ENVIRONMENTAL PROTEC WASHINGTON, DC 20460 LICATION TO TRANSFER OWNER NAME AND ADDRESS OF SURFACE OWNER Mayfield Engironmental Diverfront Plaza Piverfront MI 49503-2616
	ENVIRONMENTAL 20460
UN UN	TED STATES WASHING TRANSFETT TRACE OWNER
	TIED STATES WASHINGTON BANSFER OWNER LICATION TO TRANSFER OWNER NAME AND ADDRESS OF SURFACE OWNER NAME AND ADDRESS OWN
NOP'	NAME AND ADDRESS TO NITE OF THE NAME AND ADDRESS TO NITE OF THE NAME AND ADDRESS TO NITE OF THE NAME AND ASSOCIATION OF THE NAME OF THE NA
Ari	Mayfield Entront plaza 49503-2616 Mayfield Entront plaza 49503-2616
	one River MI 32660 7W
REPA Inc.	Grand Rap 3200 RANGE 7W
ORESS OF EXISTING OIL	28N RANGE UNIT
REPA NAME AND ADDRESS OF EXISTING PERMITTEE NAME AND ADDRESS OF EXISTING PERMITTEE One Riverfront Plaza One Riverfront Plaza Grand Rapids, MI 49503-2616 Grand Rapids, MI 5003-2616 STATE SURF	COUNTY Kalkaska Kalkaska TOWNSHIP 28N RANGE TOWNSHIP 28N TO
NAME And I PIAZO 1 STATE	ACE LOCATION DESCRIPTION NW W SECTION OF QUARTER SECTION NO WOF SW WOF SW DIRECTIONS FROM NEAREST LINES OF QUARTER SECTIONS
One Rapids	SELOCATION DESCRIPTION OF NW NEAREST LINES
Grand Rapids I Grand Rapids I LOCATE WELL AND OUTUNE UNIT ON LOCATE WELL AND OUTUNE UNIT OU	ALE WOF SW DIRECTIONS FROM
SOUTE WELL AND 640 ACRES	TYPE OF PERMIT
LOCATE WELL AND OUTLINE UNIT SURT SECTION PLAT SAO ACRES	Surface 460h from (N/S) S Line of quarter section Type OF PERMIT Surface 460h from (N/S) Well STATUS and 460h from IE/W) Well STATUS MELL ACTIVITY WELL ACTIVITY Modification/Conversion Modification/Conversion
	Surface of Quantity STATE
	A 60 h. from LE W
	and 460n from IE/W) WELL ACTIVITY Departing Number of Wells Modification/Conversion Proposed
	Proposed
I HT I I I	Class II nisposal nev
	Berine Ded Recovering 1-9
	Disprine Disprine Recovery Disprine Disprine Recovery Disprine Disprine Recovery Disprine Disprine Recovery Well Number 1-9 Disprine Disprine Recovery Well Number 1-9
WETT LITT	D Class " et al
	Lease Name Simpson et al Lease Name NAME AND ADDRESS OF NEW OPERATOR IN J Enterprises, Inc.
	LARSE NOME INC.
	LEGAND ADDRESS IN THE AND ADDRESS IN THE ADDRESS I
	NAME AND ADDRESS OF NEW OPERATOR. NAME AND ADDRESS
1 1 1 5	PO Box 427 MI 49646
NAME(S) AND ADDRESS(ES) OF NEW OWNER(S) NAME(S) AND EDTERPTISES, Inc.	kalkas
SDRESSIES OF NET Inc.	and new pernim
NAME(S) AND ADDRESS(ES) OF NEW OWNER INC.	the existing and hetween them.
W. & J E. A. 2.7	and liability by the director.
PO BOX 427 MI 49646	agreement coverage, by the submissible to the
PO Box 427 Ralkaska, MI 49646 Kalkaska, MI 49646	a Writter responsibility and erials according to materials
to this application	W & JO Box 427 Kalkaska, MI 49646 Kalkaska, MI 4964
Attach to date for trails	show evidence coal statement
specific mus	such as Tillar
The new permission assurat	in the
other adequate	Ann
	MAR 2 4 1989
	Mr.,
	UIC SECTION V EPA _ REGION V
	EPA - KLUI
	Significant Control of the Control o
.	
i;	
lar	with the I
	-ISICATION and am familiar of those
	CERTIFIED avamined and any inquity of is tri
	nersonally east based on the information information
	that I have prents and the lieve that the mitting false into
	nenalty of law all attaching information, thes for submittee
\unde	r the penalty of law that I have personally examined and am familiar with the interest of the penalty of law that I have personally examined and am familiar with the inquiry of those of the penalty of law that I have personally examined and am familiar with the inquiry of those information is true that document and all attachments and that, based on my inquiry of the information, I believe that the information, I believe that the information is true this document and all attachments and that, based on my inquiry of those information, I believe that the information is true. The penalty of law that I have personally examined and am familiar with the information is true.
I certify by	this ensible for obtained are significant 40 CFR 144.
ship submitted	- and the state of
	response that is anment. It
immediate	te. I am aware that the same and imprisonment.
and comple	te I am aware imprisonment
and comple the possible	te I am aware imprisonment lity of fine and imprisonment signature
and comple the possible	te I am aware imprisonment lity of fine and imprisonment signature
and comple the possible	te I am aware imprisonment lity of fine and imprisonment signature
and comple the possible	te. I am aware imprisonment lity of fine and imprisonment signature
deliver and a b and Buye NAME AND OFFICIAL TITE NAME TO THE OFFICIAL TITE NAME TO THE OFFI	te I am aware imprisonment lity of fine and imprisonment signature

UNITED STATES ENVIRONMENTAL PRO

WASHINGTON, DC 20460

APPLICATION TO TRANSFER PERMIT

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER									
Mayfield Environmental Pr	oduction, Inc. Mayfield Environmental Corp.									
One Riverfront Plaza 55 (One Riverfront Plaza 55 Campau, N. W. One Riverfront Plaza N. W.									
Grand Rapids, Michigan 49503 Grand Rapids, Michigan 49503										
STATE COUNTY PERMIT NUMBER										
LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT 640 ACRES	Mi Kalkaska 32660									
	SURFACE LOCATION DESCRIPTION									
<u> </u>	SW 4 OF SW 4 OF NW 4 SECTION 9 TOWNSHIP 28N RANGE 7W									
	LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT									
	Surface									
	Location 4.60 ft. from (N/S) _S _ Line of quarter section									
	ànd4_6.0 ft. from (E/W)_W_Line of quarter section									
**	WELL ACTIVITY WELL STATUS TYPE OF PERMIT									
W	☐ Class ! ☑ Operating ※IXIndividual									
	☐ Class II ☐ Modification/Conversion ☐ Area ☐ Reprine Disposal ☐ Proposed Number of Wells 1									
	☐ Enhanced Recovery									
	☐ Hydrocarbon Storage · ☐ Class !!!									
	Other									
	·									
	Lease Name Simpson Well Number 1-9									
3										

NAME(S) AND ADDRESS(ES) OF NEW OWNER(S) W & J Enterprises

P. O.Box 427

Kalkaska, Mi 49646 NAME AND ADDRESS OF NEW OPERATOR

W & J Enterprises

P. O. Box 427

49646 Kalkaska, Mi.

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the director.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

AME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED

Dennis Hogerheide

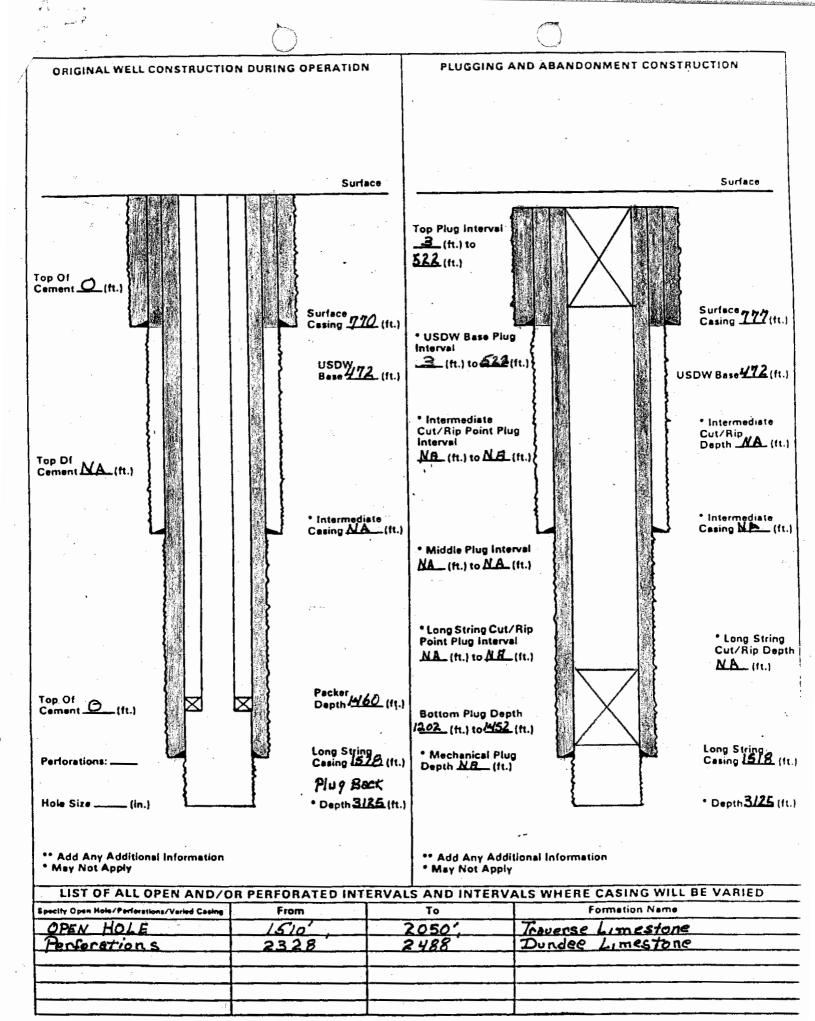
Vice President

Dec. 8, 1988

EPA Form 7520-7 (2-84)

4 3EP4	UNITED TATES ENVIRONMENTAL PROTECTION AGENCY UNDERGROUND INJECTION CONTROL PERMIT APPLICATION						T/A NG					
	Received day year	Permit /M	ell Number		Com	nents						
100 100 100 100 100 100 100 100 100 100			- H -000%									
II. FACILITY NAME AND A			000	III. OWNER/OPER	ATOR AND ADDR	ESS		y Majer	ų,			
Facility Name Simpson #1-9 We	ell			Owner/Operator	Name Gas & Oil C	ompany. Ind						
Street Address Kalkaska County	,			Street Address One Riverf		<u> </u>	-					
City Nan Silving		State MI	ZIP Code	City Grand Rapi		State MI	ZIP Code 4 9503		1.3			
IV. OWNERSHIP STATUS	(Mark 'x')			V. SIC CODES	Type See See		4		Ĺ			
☐ A. Federal ☐ B. Sta	ate 🔯 c	. Private	,	1300	REC	EIVED						
	her (Explain)					No.			•			
VI. WELL STATUS (Mark ')	The second second second							4.5	<u> </u>			
∇ Δ Date	Started			C. Proposed	Ark			v				
Operating 6	5 84	D. MOGINCALI	OUV-COUAGE21011	L. C. Froposeu	1118 4	~ a						
VII. TYPE OF PERMIT REQ		'x' and specify	(if required)			FOTICI						
🖾 A. Individual 🗆 B. A	Nun	mber of Exist- wells	Number of Pro- posed wells	Name(s) of field(s) Kalkaska	orproject(s) a 9 Field							
VIII. CLASS AND TYPE OF												
	ype(s) C. If code(s))	class is "oth	er" or type is code '	x,' explain	D. Number of we	lls per type (if are	a permit)	-				
II D								•				
IX. LOCATION OF WELL(S	OR APPROXIM	ATE CENTER	OF FIELD OR PRO	JECT STATES	X. INC	IAN LANDS (Ma	k 'x')					
		Township ar		am line Fort	- Lies -	Yes 🗓 No						
Deg Min Sec Deg			Sec 1/4 Sec Feet fr 9 NW 460		1 1	192 TVI MO	·		V			
XI. ATTACHMENTS			4.4.2.17 (A. A. A		er a maging	A Section of Many		September 1999				
(Complete the foli FOR CLASSES I, I appropriate. Attac your application:	I, III (and othe	er classes)	complete and su	ıbmit on separat	e sheet(s) Atta	chments A —						
XII. CERTIFICATION			新华的人的					in sign				
I certify under information su those individu information is submitting fals 144.32)	ıbmitted in als immed true, accur	this doc liately re rate, and	ument and al sponsible foi complete. I a	l attachment obtaining th m aware that	s and that, b ne informati there are si	ased on my on, I believ gnificant pe	inquiry e that t enalties	of the for				
	<i>Print)</i>					B. Phone No. (A		nd No.)				
Vice President		· · · · · ·				616-458-1	T20					
C. Signature						D. Date Signed	17	5				

			h. ~		UNITED	STATE	S ENVIRONME WASHINGTO		プラ AGENCY					
3	EPA		()	PLU	GGII	NG A	AND AB		MENT P	LAN				
NAME	AND ADDRESS OF FA	CILITY							F OWNER/CPE					
S_{i}	mpson 495	ωD							field Ser	vices				
85	88 Smith	Rd NE						04 1090						
AL	den, mi	49612		STATE		COUNT		SKA	m: 49	PERMIT	NUMBER			
LO	ATE WELL AND OUTL	NE UNIT ON		11/1	Ι,		IKASKA				079-2.	D-C008		
SE	TION PLAT - 640	ACRES		SURFAC	E LOCA		ESCRIPTION	· · · · · · · · · · · · · · · · · · ·						
_	N		_				14 OF A	ا س س SEC1	rion 9	TOWNSHIP	28 N RAN	NGE TW		
			7	LOCATE	WELL	IN TWO	DIRECTIONS F	ROM NEARES	T LINES OF QU	ARTER SECTION	ON AND DRILLI	NG UNIT		
	┵┵╌	 	-	Surfac	. a		_							
		<u> </u>	╛	Locati	on 460	L ft. fro	m (N/S) <u> S </u> L	ine of quarter :	section					
	7		}	and 4			W) W Line		on					
7	A	+	1		TYP	E OF	AUTHORIZATI	ON		WELL A	TIVITY			
			E	⊠ Indiv					CLASS!					
"			-	☐ Area	Permi	t			Z CLASS I		•			
-	+		7			,			☐ Enhan	ced Recover				
_			4	Numbe	r of W	elis 🚣	_		☐ Hydro	carbon Stora	ge			
	ïiil	<u>i i i . i</u>								"				
	1. 1 1					_				_				
· '	S		-	Lease M	emak	S_{lm}	p50 h		Well Numb	er /- 9				
	CASING	AND TUBING R	ECORD A					METHOD	OF EMPLACEM	ENT OF CEME	NT PLUGS			
	.,	· · · · · · · · · · · · · · · · · · ·						The Ba	lance Method					
SIZI		TO BE PUT IN WE	LL (FT) TO	BE LEFT IN V	VELL (FT)		OLE SIZE		mp Bailer Me					
16" 65' 80'				80	80' Driv				wo-Plug Method					
113/4 42 770' 770'					770' Cirto sfc 518' 250 34			Other						
848	2.9	1518		1018		- ox -	001							
CEMENTING TO PLUG AND ABANDON DATA:					PLU	G #1	PLUG #2	PLUG #3	PLUG #4	PLUG #6	PLUG #6	PLUG #7		
Size of	Hole or Pipe in which P				83		85/8	7 40 5 110	1000 11.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	o Bottom of Tubing or C				145		522'							
Sacks	of Cement To Be Used (s	ech plug)			76		158							
Slurry	Volume To Be Pumped (cu. ft.)			90		186					ļ		
	ted Top of Plug (ft.)				120	2	3'	· · · · · · · · · · · · · · · · · · ·				 		
	red Top of Plug (if tagge	d ft.)			15.	<i>/</i> -	15.6					 		
	Wt. (Lb./Gal.)	L/Close IIII	-		Class		Clussa					 		
туре С	ment or Other Material	ALL OPEN HOLE	E AND/OF					ALS WHERE C	ASING WILL BE	VARIED //f ag	vl	<u></u>		
	From	7.20 0. 0.11.00.		То				From		1	To			
	1510'		2	050	,									
	2328'		2	488	, 									
										ļ	··-			
										ļ <u>-</u>		<u> </u>		
Estima	ed Cost to Plug Wells									·				
Cathina	٠,													
	S 4:	500.00	7											
	7				۰		10471011		•					
					ÇE	: K	ICATION							
	I certify unde													
	submitted in	this docum	nent an	d all att	achn	nents	and that,	based on i	my inquiry	of those	individuals			
	immediately	responsible	for obt	aining t	he in	forma	ation, I beli	eve that th	ne infor <mark>mat</mark>	ion is true	, accurate,			
	and complete	e. I am aware	e that th	nere are	signi	fican	t penalties	for submitt	ting false in	formation	, including			
	the possibilit	y of fine and	d impris	son me nt	t. (Rei	4. 40	CFR 144.3	2)						
NAME	AND OFFICIAL TITLE (PI	lease type or prin	17	Sic	SNATUR	RE (7	/		DATE SIG	GNED			
Dav	id L. Stoops	Disp IM	lar.			7	X Xi	OORD		02	-25-	99		
~ i. •			,	!		70		_ ,		, -	~ ~ ~	·		



Simpson #1-9 Well State Permit #32660

Attachments Page 1

A. Area of Review

The area of review shall be a fixed radius of no less than 1/4 mile from the well bore.

- B. Does not apply to existing Class II wells.
- C. Does not apply to existing Class II wells.
- D. Does not apply to Class II wells.
- E. Name and Depth of USDWs

Underground sources of drinking water in the area of review occur in the glacial drift. The base of the drift is at 472' at the well location. The drift is underlain by the Mississippian Coldwater and Sunbury shales. This well is outside the updip edge of the Mississippian aquifer system, and strata lower than the Mississippian contain water with more than 10,000 ppm total dissolved solids and therefore do not qualify as USDWs (ref: Hydrogeologic Atlas of Michigan, Western Michigan University, 1981).

F. Does not apply to Class II wells.

G. Geologic Data on Injection and Confining Zones

Injection Zone: Traverse and Dundee

Lithology: Limestone

Thickness: 1516'-2467' (951')

Upper Confining Zone: Coldwater, Sunbury, Ellsworth and

Antrim

Lithology: Shale

Thickness: 472'-1452' (980')

Lower Confining Zone: Detroit River, Amherstburg Formation

Lithology: Carbonaceous Limestone

Thickness: 2467'-3606' (1139')

No fracture pressure data is available for this well. The maximum allowable wellhead injection pressure calculated using the formula presented in 40 CFR Section 147.1153 is (0.8-0.433(1.28))(1510') = 371 psi.

H. Operating Data

Average Injection Rate:

Maximum Injection Rate:

Average Injection Pressure:

200 bpd 500 bpd

Well normally takes fluid on

gravity. Pump used on standby, 50 psig operating pressure.

Maximum Injection Pressure: Maximum pump discharge =

250 psig

Maximum allowable = 356 psig

Source of Injection Fluid: Various Formations

Injection Fluid Analysis: See report in Appendix

Annulus Fluid Composition: 10 gallons of Dowell A200.2 corrosion inhibitor in 83 bbl

Fresh Water

I. Does not apply to existing Class II wells.

J. Stimulation Program

The well was acidized 6/5/84 by spotting 600 gallons 28% HCl from 2450' to 2215' and 1100 gallons 28% HCl from 1920' to 1700'. Set packer at 1500'. Perforated with 1 spf from 2328' to 2488'. Pumped away spot acid at 6 BPM with 600 psi maximum surface pressure. Swabbed back to clean up bottom perforations.

K. Injection Procedures

The well is equipped with a 3" basket strainer located between the feed tank and the pump suction. A Kerr KM-3250 triplex pump (25 gpm capacity) is installed for standby use to speed injection, but is normally not required. Injection fluids are collected in four 400 bbl, 12' diameter by 20' high steel tanks before being gravity fed or pumped to the well.

L. Construction Procedures

The well was drilled 10/14/78 to 10/27/78 with rotary tools to a total depth of 6169'. Set 80' of 16", 55#/ft drive pipe; 770' of 11 3/4", 38#/ft surface casing in 14 3/4" hole with 500 sacks cement circulated to surface; 3284' of 8 5/8", 24#/ft intermediate casing in 10 5/8" hole with 750 sacks cement. Plugged and temporarily abandoned as dry hole 10/29/78.

Converted to salt water disposal well 6/5/84. Cut and pulled 8 5/8" casing at 2050'. Ran 1510' of 8 5/8", 24#/ft casing cemented with 150 sacks 65/35 poz and 100 sacks Class A. Returned 6 bbls cement to surface. Perforated with 1 spf from 2328' to 2488' and acidized per Attachment J. Also, open hole completion from 1510' to 2280'.

Ran 1425' of 2 3/8" steel tubing and set Aeroset tension packer at 1425'.

A copy of the Schlumberger compensated neutron log run when the well was originally drilled is contained in the Appendix.

M. Construction Details

A well schematic drawing is contained on the following page.

N. Does not apply to Class II wells.

O. Plans for Well Failures

If a well failure is detected, the well will be shut-in until the faulty equipment is replaced and the well returned to a safe operating condition. If the failure and operation pose no environmental hazard, then nothing further will be done.

In the case of casing leaks or some other major failure, the well will be shut-in and the Department of Natural Resources and EPA will be contacted. The well will remain shut-in until the condition is corrected. This correction will involve squeezing off the leak with cement or replacing the bad casing. The well will not be returned to active status until its integrity has been determined. Any fluid produced during injection well shut-in will either be stored on site or removed by a commercial disposer depending on the amount produced.

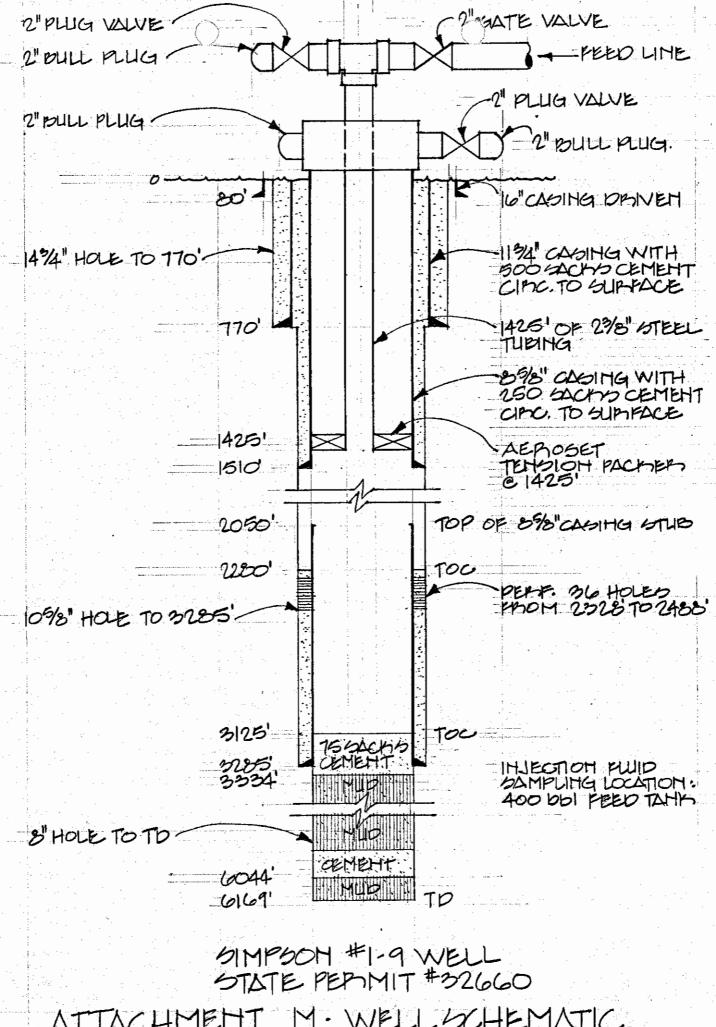
P. Monitoring Program

Injected fluids will be analyzed by an independent laboratory each time changes are made in the injected fluid.

The injection pressure, flow rate, and cumulative volume will be observed weekly, recorded monthly, and reported annually using OMB Form 2000-0042, the Annual Disposal/Injection Well Monitoring Report.

Q. Plugging and Abandonment Procedures

The EPA Plugging and Abandonment Plan is attached, with the plugging procedure and cost estimate contained on the reverse side of the form.



· WELL SCHEMATIC

Attachments Page 4

R. Necessary Resources for Plugging and Abandonment

A copy of the State of Michigan bond and letter requesting EPA approval of the bond are attached.

S. Aquifer Exemptions

Not applicable.

T. Existing EPA Permits

None.

U. <u>Description of Business</u>

Wolverine Gas & Oil Company, Inc. is engaged in the exploration and production of crude oil and natural gas.

Appendix

Contents

Injection Fluid Analysis
Copy of Schlumberger CN Log
Plugging & Abandonment Plan
State of Michigan Bond
List of Landowners of Record in Area of Review